

## Long-stem for Cryogenic Liquid and Gas

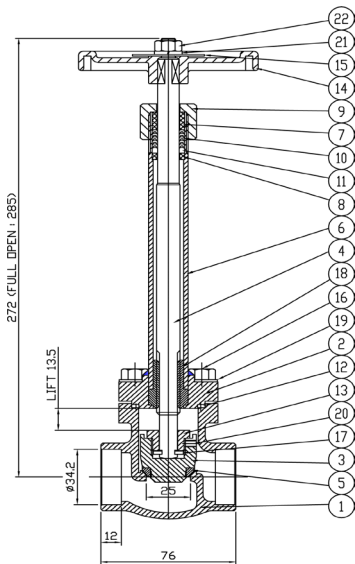
“SS Cryogenic Long-stem Globe Valve” is designed to provide exactly shut-off of cryogenic liquid systems.

This valve is used extensively in bulk storage tanks, portable liquid cylinders and pipelines for LO<sub>2</sub>, LN<sub>2</sub>, LO<sub>2</sub>, LAr and LNG. Unique design and manufacturing technology give much better price and more reliability.

### Product Specifications

**NS\_100S**

Design pressure : 5.0MPa  
 Design temperature: -196°C~75°C  
 Kind of fluid: LN<sub>2</sub>, LO<sub>2</sub>, LAr, LCO<sub>2</sub>, LNG, LC<sub>2</sub>H<sub>4</sub>  
 Hydrostatic test pressure: 7.5MPa  
 Pneumatic test pressure: 5.5MPa



### Service characteristics

No	Part Name	Material	No	Part Name	Material
1	Body	CF 8	13	Disc Lock Nut	C3604
2	Bonnet	CF 8	14	Hand Wheel	ALDC8
3	Disc	C3604	15	Name Plate	A1100P
4	Stem	SUS 304	16	Bolt	SUS 304
5	Disc Seat	PCTFE	17	Snap Ring	SUS 304
6	Extended Pipe	SUS 304	18	Stud Nut	C3604
7	Gland Ring	SUS 304	19	Seat Washer	SUS 304
8	Packing Ring	SUS 304	20	Set Screw	SUS 304
9	Grand Nut	C3604	21	Spring Washer	SUS 304
10	Packing	PTFE	22	Hex' Bolt	SUS 304
11	Packing Adapter	PTFE			
12	Gasket	V#7020			

\* No maintenance is required other than replacement of seat assembly if any problems happen.

### NS100s Ordering information

Model No.	SIZE	ØD	d	d1	L	L1	I	W	H	Cv
NS100s-10A-SW	3/8" (10A)	12	17.5	26	56	8	8	80	200	2.0
NS100s-15A-SW	1/2" (15A)	15	21.9	30	62	9	10	80	245	2.9
NS100s-20A-SW	3/4" (20A)	20	27.4	36.8	70	11	12	100	270	6.1
NS100s-25A-SW	1" (25A)	25	34.2	44	76	12	13.5	100	285	9.3
NS100s-32A-SW	1-1/4" (32A)	32	42.9	52	90	13	16	100	350	14.0
NS100s-40A-SW	1 1/2" (40A)	40	48.8	62	110	14	22	140	430	25.0
NS100s-50A-SW	2" (50A)	50	61.0	74	130	15	25	140	460	38.0
NS100s-80A-SW	3" (80A)	80	78	100	210	-	32	200	600	56
NS100s-100A-SW	4" (100A)	100	98	130	280	-	38	250	700	140

\* Valves are manufactured by patented technology. More than 50A are butt weld connection.

